Quality Control

Work Order September-11-13 1)8		*10	6808*						Page 1
Revision ID: Item Name: Gro	000-9			Accept	*N900		100)* s	etup Sta Sto	171	S1* S2*
Start Date: 9/1 Required Date: 9/1		art Qty: 12.00 eq'd Qty: 12.00	*12*		Cust Item I Customer:	D:				•	
Reference:	. 1/15 KC	eq u Qiy. 12.00	*12*		Customer.						
Approvals: Pr	rocess Plan: _	\mathcal{W}	Date:	Tooling: SPC (Y/N):		ate:		R	un Sta Sto	" [V]	R1* R2*
Sequence ID/ Work Center ID	•	peration scription		Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Revision	n Nbr									
D4000	Α										
100 *100* Hardinge		Memo		0.00	cul 13/09/	16		38			
Hardinge CNC Lathe Sn	nall		ER DWG AND FOLIO FA	910							
110 +4.4.0 +	QC	2- Inspect parts off m	achine FAI/FAIB	0.00	and 13/09	alic		20			
110 QC Quality Control		Memo		0.00				_38_	<i>1</i> 5		
120	QC	8- Inspect parts - seco	and check	0.00							
120 ^{QC}		Memo		0.00				· · · · · · · · · · · · · · · · · · ·			\$13946

NCR: Y	es / No				WORK ORDER NON-C	O	NFORM	MANCE / UPI	DATE					
										QA Closed:	Date:			
Work Orde	or.				DISPOSITION		AGAINST DEPARTMENT/PROCESS							
Part N					Rework Scrap Use-as-is		ľ	Skid-tube Machining Moforming	Crosstube Small Fab Finishing	4	Water Jet d. Eng. Coor. re/Packaging	Engineering Quality Other		
NCR N	No				Work Order Update			Large Fab	Composite	, Rec/Stol	Supplier	J Other		
Root				Descri	ption of work order update	I	Initial	Act	tion	Sign &				
Cause	Date	Step	Qty	(or Non-conformance	Ch	nief Eng	Desci	ription	Date	Verification	QC Inspector		
Doc/Data Equip/Tooling Operator		!												
Material	Ц													
Setup										1				
Other														
Process														
Supplier						İ								
Training Unapproved	H													
опарргочец	<u> </u>	<u> </u>	1		F		T CATE	GORY			<u> </u>	L		
Landi	ng Gear			·	General									
	Bending				Bend		Grain			Ovalized		Pressure/Forced		
	—	Not Conce	ntric to (o/s 🗀	BOM/Route		Hardwa	re		Over/Under	tolerance	Temperature/Cure		
	Cracks			Broken/Damaged		Inspecti	on Incomplete		Part Incorred	ct	Weld			
	Crushed	/Crimped			Burrs		Instructi	ions Incomplete/l	Jnclear	Part Lost/Mi	ssing	Wrong Stock Pulled		
	Cuffs				Contamination		Mainte	nance		Part Moved	<u> </u>	_		
	Heat Tre	eat			Countersink		Mislabe	led		Positioned V	Vrong	_		
	Inspecti	on Strip in	Tube		Cut Too Short		Misread	1		Power Loss/	Surge	Other		
	Ripples	in Bend			Drill Holes		Offset			_				

Out of Calibration

Out of Sequence

Outside Dimensions

DQA:

Date:

Turning Sequence

Wave/Twist in Tube

Torque Waves in Extrusion

Drawing

Finish

Folio

Work Ord September-11-				*106	8808*							Page 2
Item ID: Revision ID: Item Name:	D4000-9 Grommet			Accept	*N900	040	100)*	•	Start Stop		S1* S2*
Start Date: Required Dat Reference:	9/11/13 e: 9/11/13	Start Qty: 12.00 Req'd Qty: 12.00	*12* *12*		Cust Item I Customer:	D:						
Approvals:	Process Pl	an:	Date:	Tooling: SPC (Y/N):		ate:				Start Stop	*N *N	R1* R2*
Sequence ID/ Work Center	ID	Operation Description Identify as per dwg & Sto	ock Location: 57083	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accep Qty	t Rejec Qty		Reject Number	Insp. Stamp
130		Momo		0.00				38;	× 28	3	13-0	9-17

140

QC21- Final Inspection - Work Order Release

0.00

*14**0***

Memo

Memo .

0.00

Quality Control

Packaging

Packaging

MC5 13-09-17

Page 2

						•				DQA:	Date	;
NCR: Y	es / No				WORK ORDER NON-C	100	NFORM	MANCE / UPI	DATE	QA Closed:	 Date	
										•		
Work Orde	er:				DISPOSITION				AGAINST DE	PARTMENT	PROCESS	
Part N NCR N	lo				Rework Scrap Use-as-is Work Order Update		Therm	Skid-tube Machining noforming Large Fab	Crosstube Small Fab Finishing Composite		Water Jet d. Eng. Coor. re/Packaging Supplier	Engineering Quality Other
Root				Descri	ption of work order update	ı	nitial	Act	ion	Sign &		
Cause	Date	Step	Qty	C	or Non-conformance	Ch	ief Eng	Descr	ription	Date	Verification	QC Inspector
Doc/Data												
Equip/Tooling												
Operator												
Material												
Setup		€.*	Q.									
Other		15: Major	1.									
Process												
Supplier												
Training		İ										
Unapproved			l								·	<u></u>
					F,	AUL	T CATE	GORY				
Landin	ng Gear			_	General		1		_	1	_	7
	Bending			<u></u>	Bend	$ldsymbol{oxed}$	Grain			Ovalized	<u></u>	Pressure/Forced
1	Centre No	ot Concer	ntric to	o/s	BOM/Route	_	Hardwa			Over/Under	-	Temperature/Cure
	Cracks				Broken/Damaged		l '	on incomplete	}	Part Incorred	<u></u>	Weld
	Crushed/	Crimped		_	Burrs	_	ĺ	ions Incomplete/U	<u> </u>	Part Lost/Mi	ssing	Wrong Stock Pulled
ļ	Cuffs			<u> </u>	Contamination		Mainte		├ ─-	Part Moved		
ļ	Heat Treat				Countersink	\vdash	Mislabe		⊢	Positioned V		7 .
ļ	Inspectio		Tube		Cut Too Short		Misread			Power Loss/	Surge	Other
ļ	Ripples in			<u> </u>	Drill Holes		Offset					
	Torque W	/aves in E	xtrusio	n [Drawing		Out of C	Calibration				

Out of Sequence

Outside Dimensions

Turning Sequence

Wave/Twist in Tube

Finish

Folio

H:/FORMS/Quality Assurance\approved QA/NCRWO Rev G

September-11-13 11:44:10 AM

Work Order ID:

106808

Parent Item:

D4000-9

Parent Item Name:

Grommet

Start Date: 9/11/13

Required Date: 9/11/13

Start Qty: 12.00

Required Qty: 12.00

Comments:

IPP REV:A NEW ISSUE 10-02-05 JLM VERIFIED BY:EC

IPP rev B 10.05.13 ecn10-

562 EC verified by:DD

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
MDELRINR1.2500 DELRIN ROUND BAR 1.	25"	Purchased	No	/		100	f	21.7170	0.05	0.6315789)	er the money	
				Location		Loc Oty	Lo	c Code					
				MAT018		21.717					a d	/-	-/
				m126	596	21.717			2	. / 4	~ ~~	13/0	9/11

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							•				DQA:	Date	e:
NCR: Y	⁄es	/ No				WORK ORDER NON-O	100	NFORM	MANCE / UP	DATE			
				·							QA Closed:	Date	e:
Work Orde	er:					DISPOSITION				AGAINST DE	PARTMENT	/PROCESS	
Part N	٠ . lo٠					Rework Scrap Use-as-is Work Order Update		t Thern	Skid-tube Machining noforming Large Fab	Crosstube Small Fab Finishing Composite	-	Water Jet d. Eng. Coor. re/Packaging Supplier	Engineering Quality Other
Root					Descri	ption of work order update		Initial	Ac	tion	Sign &		
Cause		Date	Step	Qty	(or Non-conformance	Ch	nief Eng	Desc	ription	Date	Verification	QC Inspector
Doc/Data Equip/Tooling Operator Material Setup Other Process Supplier Training Unapproved						E	A111	T CATE	COPY				·
Landii	na G				<u> </u>	General	AUL	. CATE	JONT				
		Bending Centre No Cracks Crushed/o Cuffs Heat Trea Inspection Ripples in	Crimped it n Strip in		o/s	Bend BOM/Route Broken/Damaged Burrs Contamination Countersink Cut Too Short Drill Holes		1 '	on Incomplete ions Incomplete/ nance led	Unclear	Ovalized Over/Under Part Incorred Part Lost/Mi Part Moved Positioned V Power Loss/	ct ssing Vrong	Pressure/Forced Temperature/Cure Weld Wrong Stock Pulled Other
		Torque W		xtrusion	, -	Drawing	-	4	Calibration			<u> </u>	

Out of Sequence

Outside Dimensions

Turning Sequence

Wave/Twist in Tube

Finish

Folio

H:/FORMS/Quality Assurance\approved QA/NCRWO Rev G

DART AEROSPACE LTD	Work Order:	106808
Description: Grommet	Part Number:	D4000-9
Inspection Dwg: D4000 Rev: A		Page 1 of 1

FIRST ARTICLE INSPECTION CHECKLIST

Drawing Dimension	Tolerance	Actual Dimension	Accept	Reject	Method of Inspection	Comments
Ø0.60	+/-0.030	.599			Vern	11-06
Ø1.02	+/-0.030	1.020			/1	
0.39	+/-0.030	.390			l c	
Ø0.709	+/-0.010	.709			rl	
Ø0.748	+/-0.010	.7410			.,	
0.051	+/-0.010	.057			;1	
0.073	+/-0.010	.073		*	,,	
0.20	+/-0.030	.200			1,	
0.13 x 45°	+/-0.030 x 0.5°	.137X45°			3 (

Measured by:	Audited by:	Preliminary Approval:	N/A
Date: 13/09/16	Date: 13-9-16	Date:	N/A

Rev	Date	Change	Revised	ıkı	/	Approved
Α	10.08.03	New Issue	KJ <	\mathcal{L}		<u> </u>
			7	ואלו		

